Inventor(s): ABE et al.

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II. AMENDMENTS TO THE CLAIMS

Claims 1-12. (Canceled)

Claim 13. (Original) A method for lithography using a photo mask, in which the photo mask utilizes a glass optical member, said method comprising:

providing a porous silica glass body for the glass optical member; heating the porous silica glass body in an atmosphere containing hydrogen; and sintering the porous silica glass body in an atmosphere containing a fluorine compound.

Claim 14. (Currently Amended) The method according to claim 13, further <u>comprising</u> eomprises providing a light source of the lithography having a wavelength of 400 nm or less.

Claim 15. (Currently Amended) The method according to claim 14, wherein the light source includes an F_2 excimer laser a light source.

Claim 16. (Original) A method for lithography using a photo mask, in which the photo mask utilizes a glass optical member, said method comprising:

providing a porous silica glass body for the glass optical member; heating the porous silica glass body in an atmosphere containing oxygen; and sintering the porous silica glass body in an atmosphere containing a fluorine compound.

Claim 17. (Currently Amended) The method according to claim 16, further <u>comprising</u> eomprises providing a light source of the lithography having a wavelength of 400 nm or less.

Claim 18. (Currently Amended) The method according to claim 17, wherein the light source includes an F_2 excimer laser a light source.

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